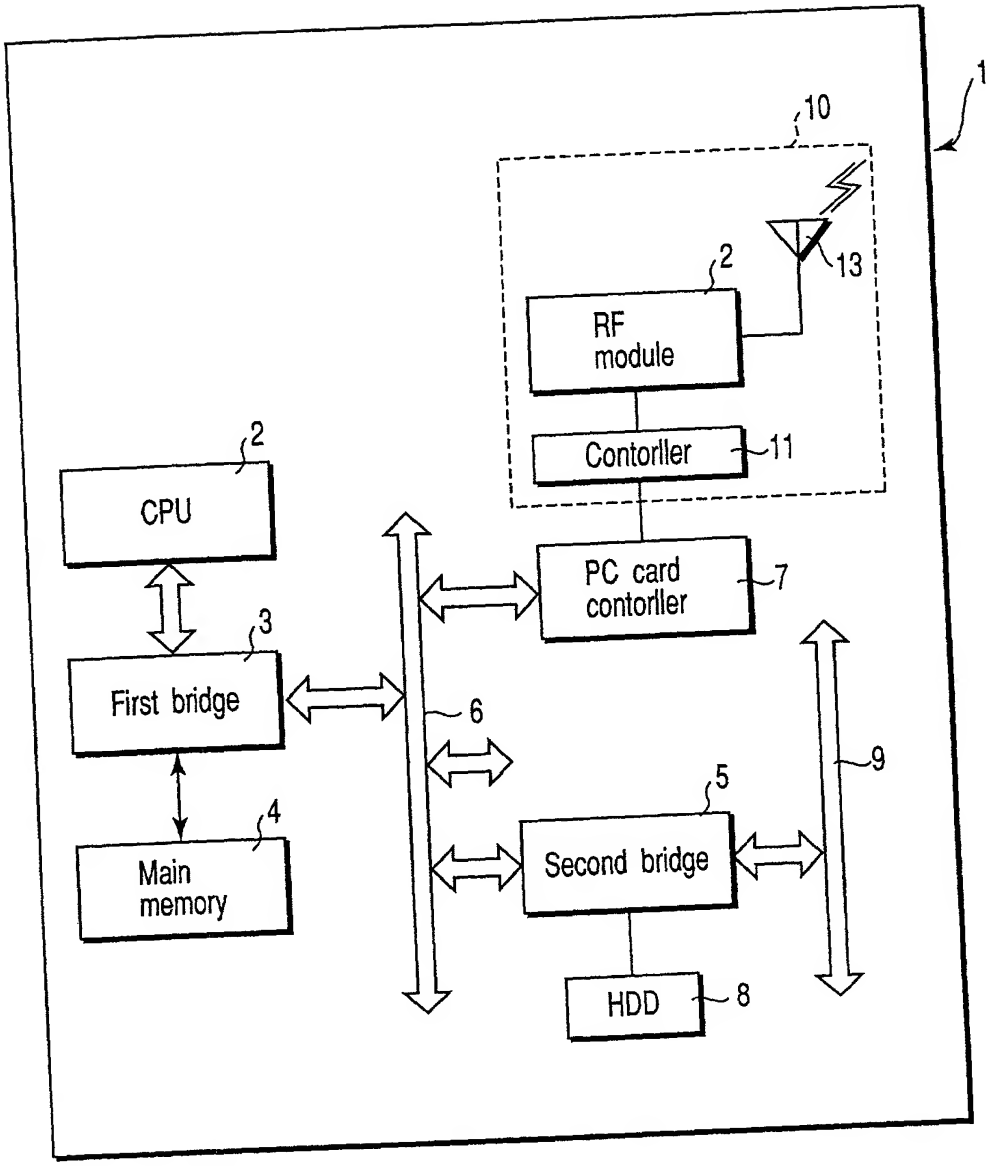
1
10
13
2
RF module
Contorller
11
2
CPU
PC card contorller
7
3
First bridge
6
9
5
4
Main memory
Second bridge
HDD
8

FIG. 1

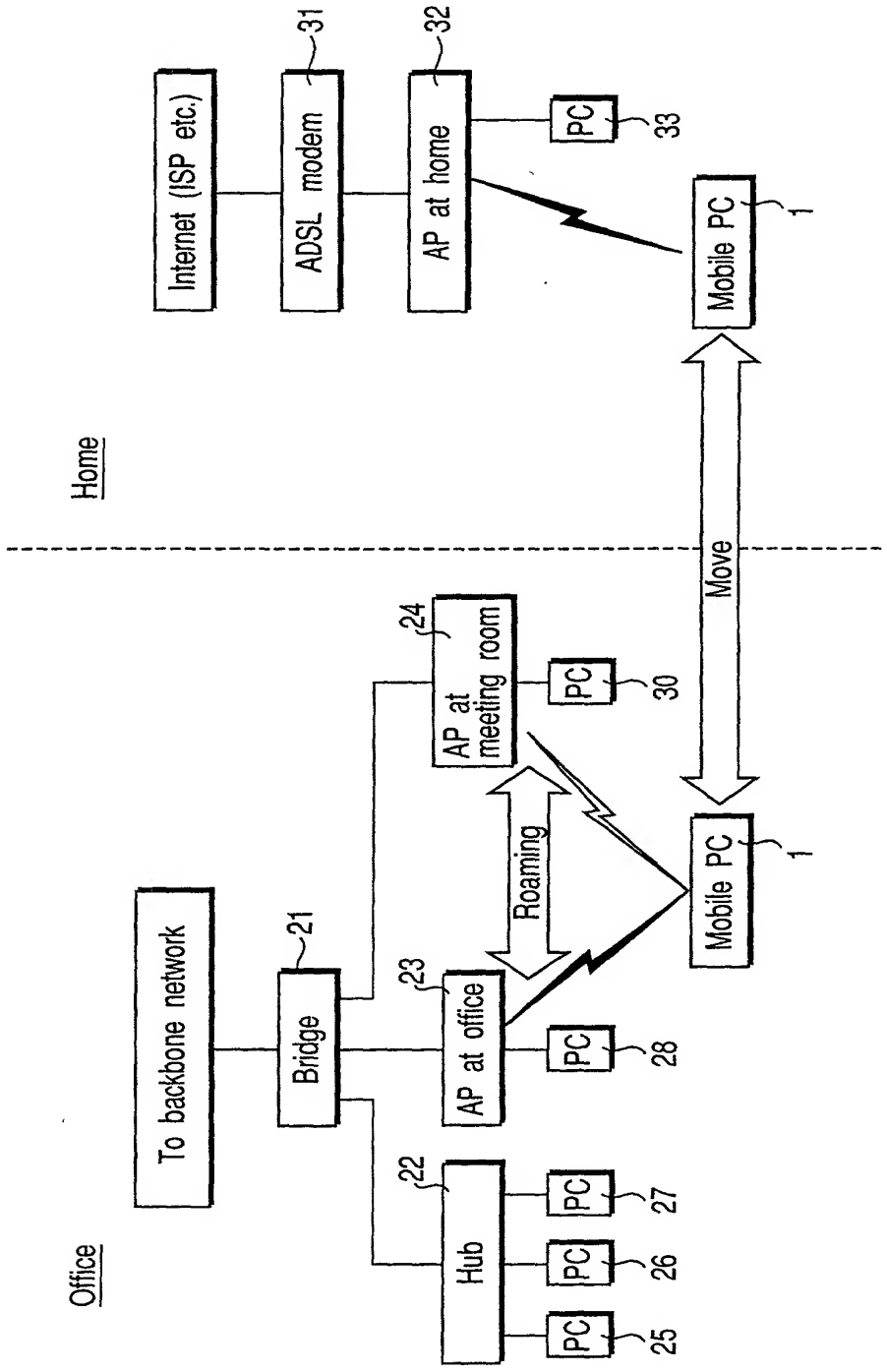
Internet (ISP etc.)
ADSL modem
AP at home
PC
Mobile PC
Home
Move
AP at meeting room
PC
Roaming
Mobile PC
To backbone network
Bridge
AP at office
PC
Hub
PC
PC
PC
Office

FIG. 2

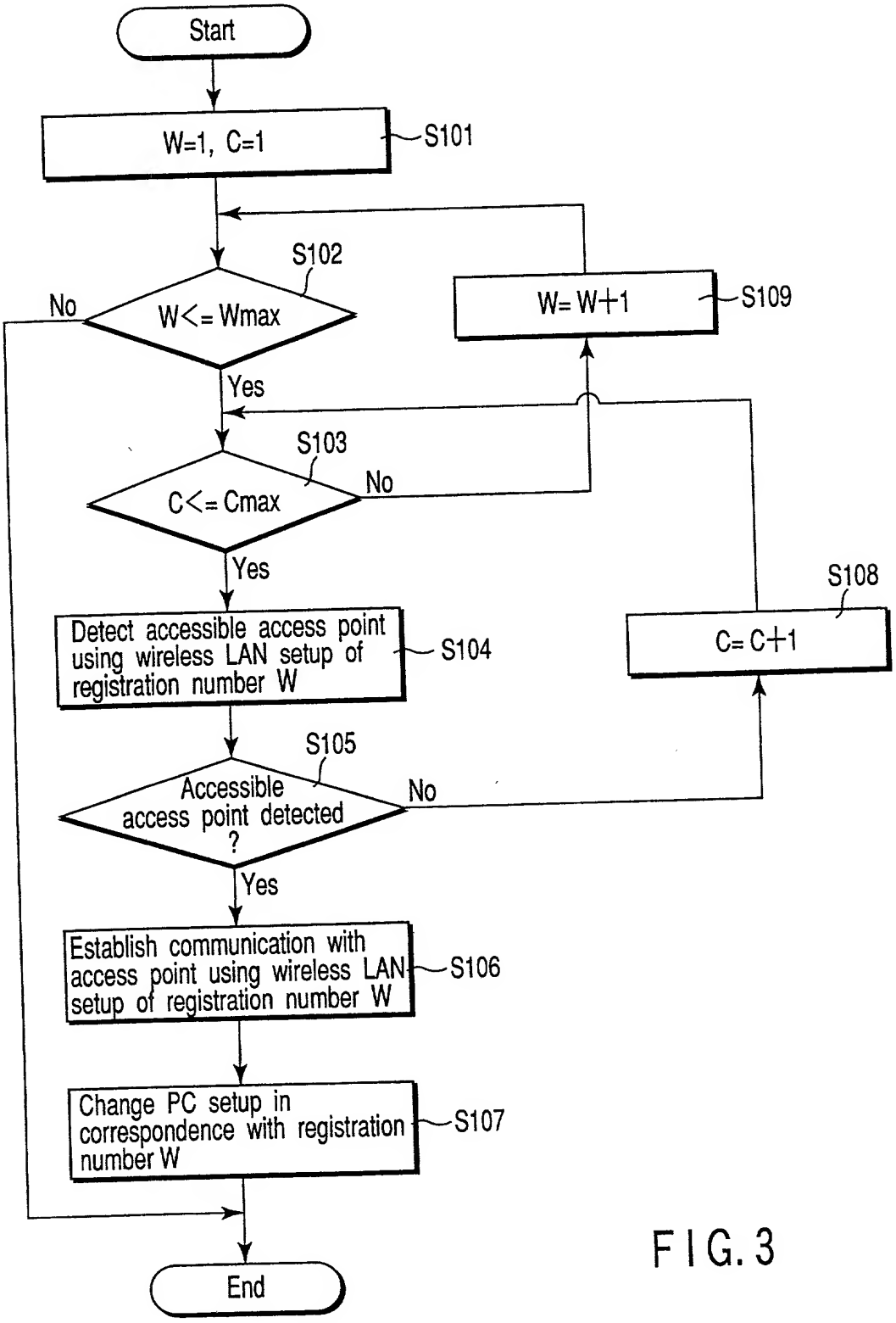
Start
W=1, C=1
S101
S102
W<= Wmax
No
Yes
W= W+1
S109
S103
C<= Cmax
No
Yes
S108
C= C+1
Detect accessible access point using wireless LAN setup of registration number W
S104
S105
Accessible access point detected ?
No
Yes
Establish communication with access point using wireless LAN setup of registration number W
S106
Change PC setup in correspondence with registration number W
S107
End

FIG. 3

Priority	Set access point
1	Access point at office
2	Access point at meeting room
3	Access point home

FIG. 4

41

Wireless LAN setup item		
Item	Subitem	Setup value
BSSID		00:11:22:33:44:55
BSSID		"MYOFFICE
WEP	Enable/disable	Enable
	KEY number	1
	KEY 1	"MYOFS"
	KEY 2	Not set
	KEY 3	Not set
	KEY 4	Not set

FIG. 5

42

Network setup item		
Item	Subitem	Setup value
DHCP	Enable/disable	disable
	IP address	192.168.10.10
	Subnet mask	255.255.255.0
	Default gateway	192.168.10.1
	DNS server	192.168.10.1

FIG. 6

43

Application setup item		
Item	Subitem	Setup value
Mail		Netscape messanger
	Transmission mail server	smtp.myoffice.com
	Reception mail server	pop3.myoffice.com
	User name	my_mail_name
	Password	my_mail_password
News reader		Outlook express
	News server	news.myoffice.com

FIG. 7

<Probe Request> 45

ESSID
Supported rate

FIG. 8

<Probe Response> 46

Timestamp
Beacon interval
Capability information
ESSID
Supported rates
DS parameter set

FIG. 9

<Beacon> 47

Timestamp
Beacon interval
Capability information
ESSID
Supported rates
DS parameter set
TIM

FIG. 10

1000/8/05, 0:53:00

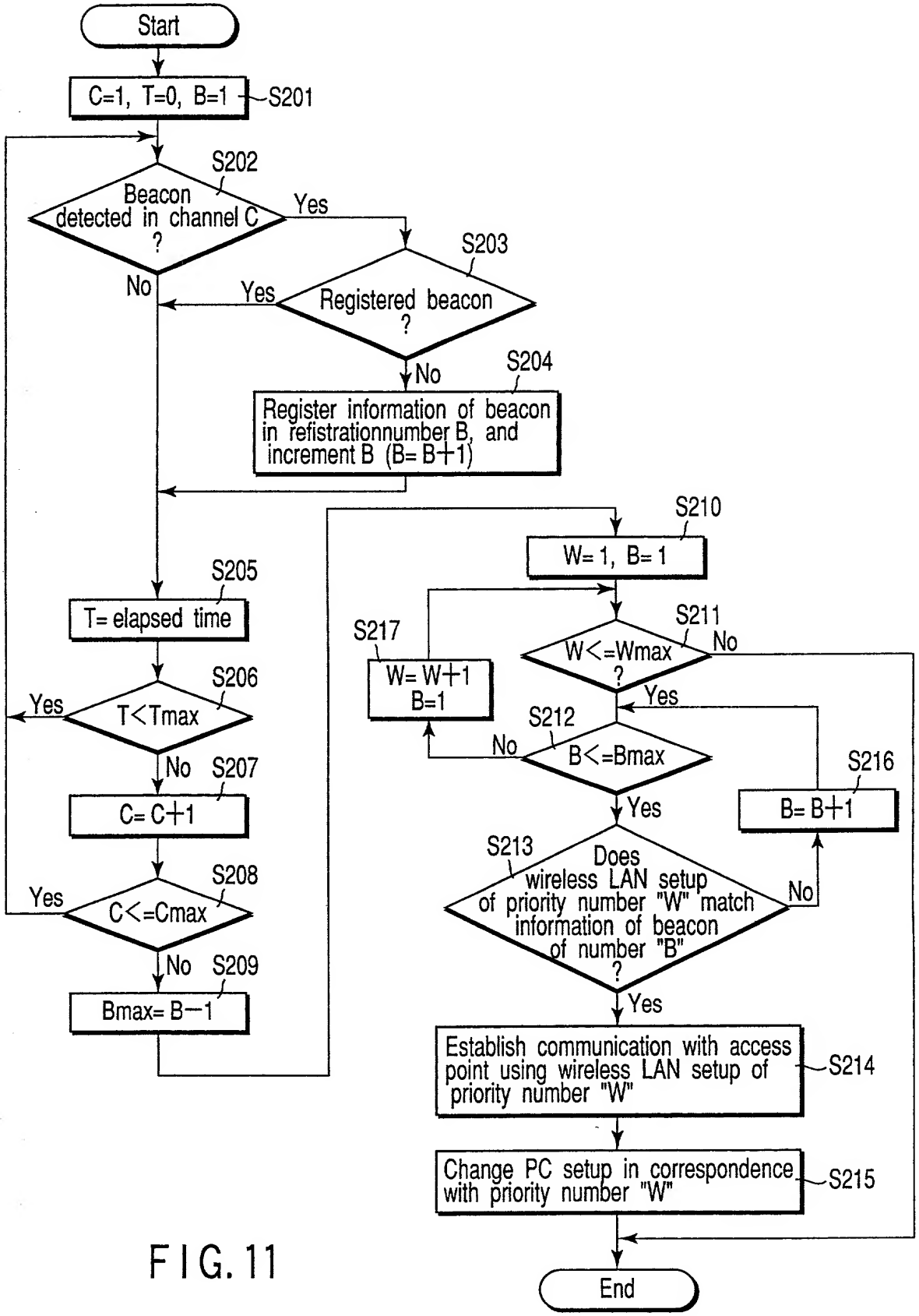
Start
C=1, T=0, B=1
S201
S202
Beacon detected in channel C ?
Yes
No
S203
Registered beacon ?
Yes
No
S204
Register information of beacon in refistrationnumber B, and increment B (B= B+1)
S205
T= elapsed time
S206
T<Tmax
Yes
No
S207
C= C+1
S208
C<=Cmax
Yes
No
S209
Bmax= B−1
S210
W= 1, B= 1
S211
W<=Wmax ?
No
Yes
S212
B<=Bmax
No
Yes
S213
Does wireless LAN setup of priority number "W" match information of beacon of number "B" ?
No
Yes
S214
Establish communication with access point using wireless LAN setup of priority number "W"
S215
Change PC setup in correspondence with priority number "W"
S216
B= B+1
S217
W= W+1
B=1
End

FIG. 11